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# Case Study

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## PIT WALL ROCK REMOVER

**INTERNATIONAL  
GOLD MINER**

**2007**



### **PROBLEM**

An OEM approached Austin Engineering to help an overseas customer by designing an attachment for an excavator to remove rocks from the pit wall. The attachment had to address the issue of rocks potentially falling from high on the pit wall onto equipment and personnel.

### **SOLUTION**

To address the potential safety issue of falling rocks, Austin Engineering needed to design an attachment which would give the excavator extended reach to remove protruding rocks before they fell to the ground.

Using Pro-E 3D and FEA software, Austin Engineering completed a design proposal that would extend the boom by approximately 10 meters. It also included “claws” at the end of the boom that could be hydraulically operated from the cab to selectively pick rock from the high wall face.

The customer placed an order for the attachment which was successfully manufactured and delivered to site where the design worked as specified.

The design of this attachment can be adapted for a variety of machine types.